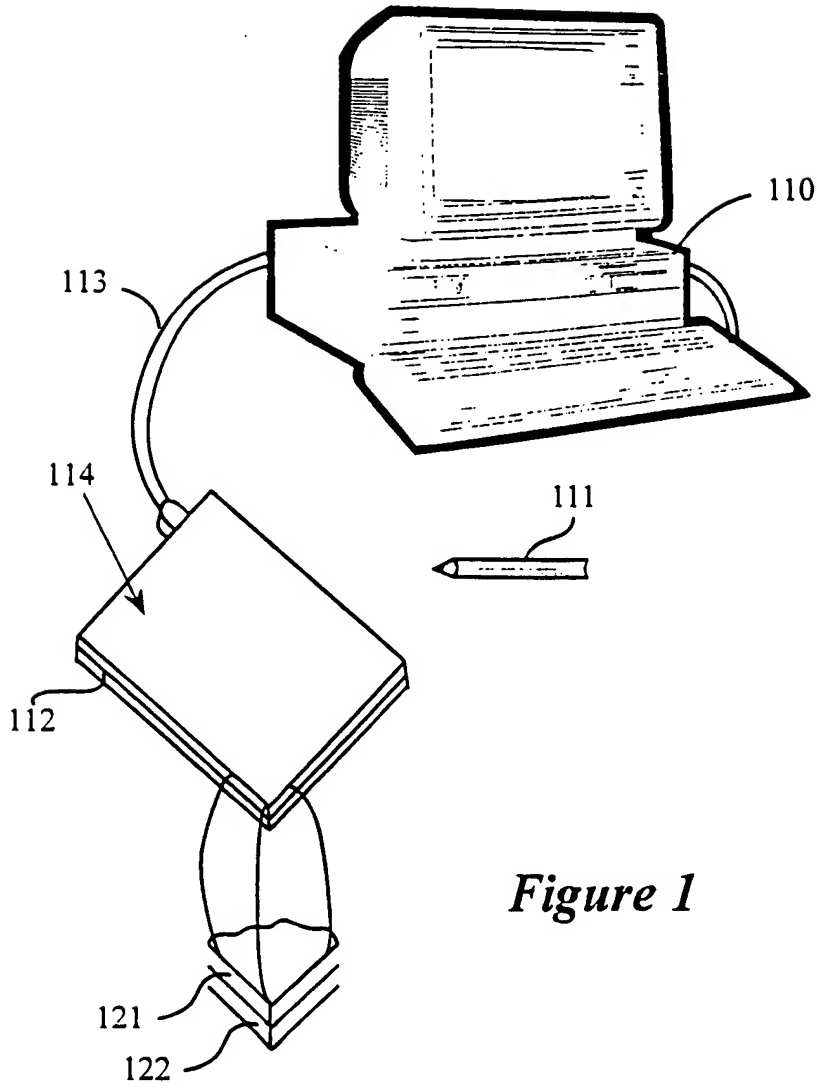
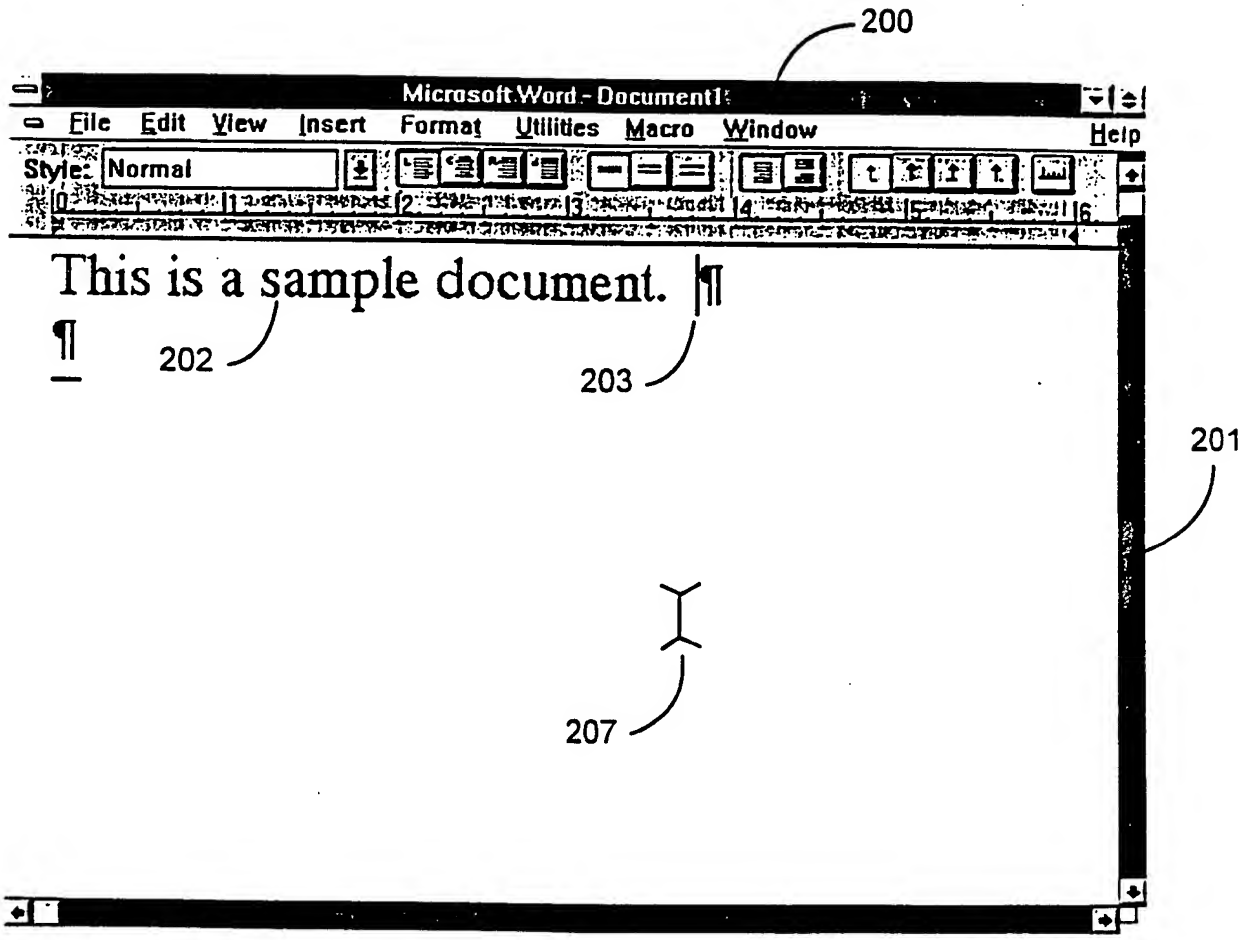



*Figure 1*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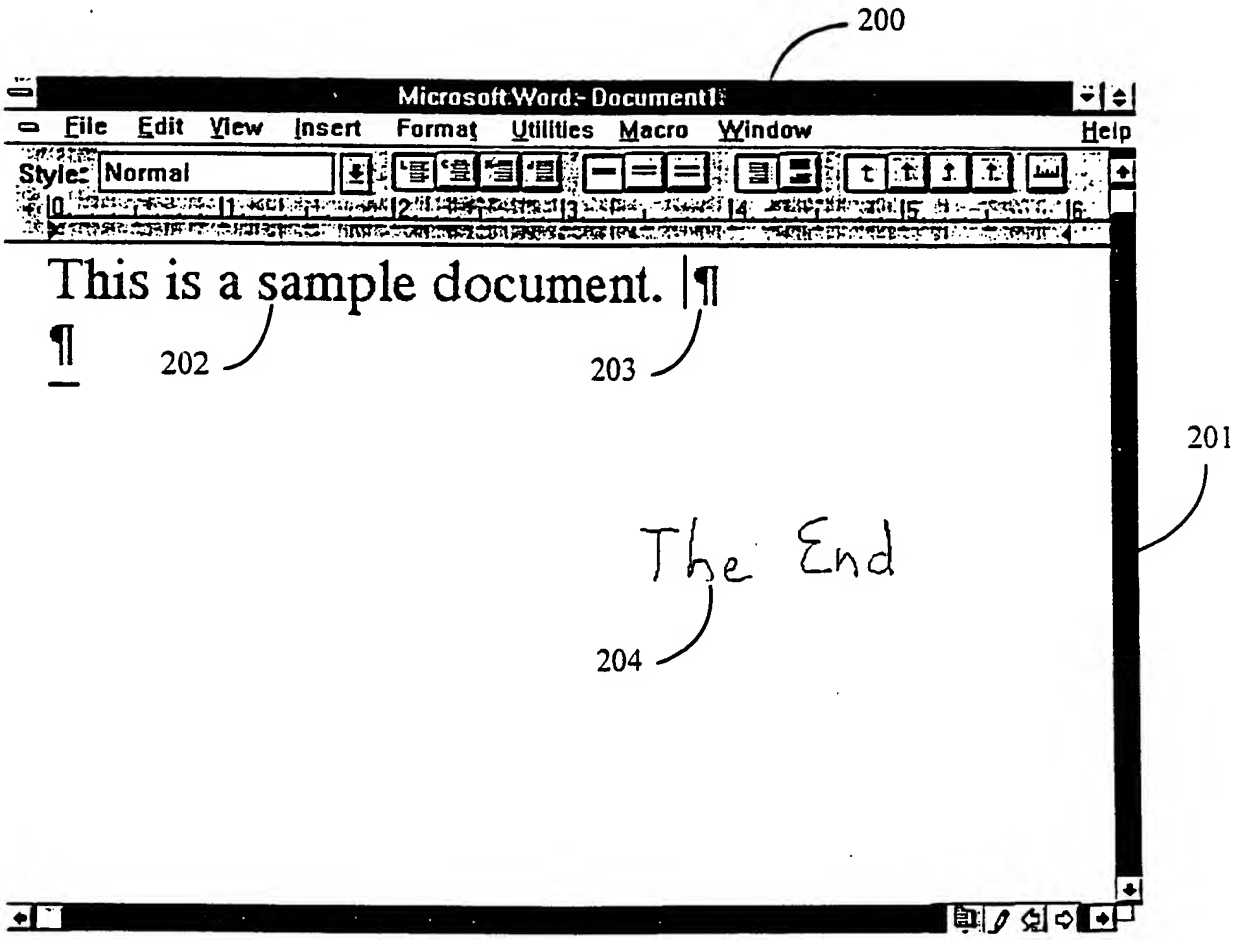
Microsoft Word - Document1
File Edit View Insert Format Utilities Macro Window Help
Style: Normal
This is a sample document. ¶
¶
202
203
201
207

*Figure 2A*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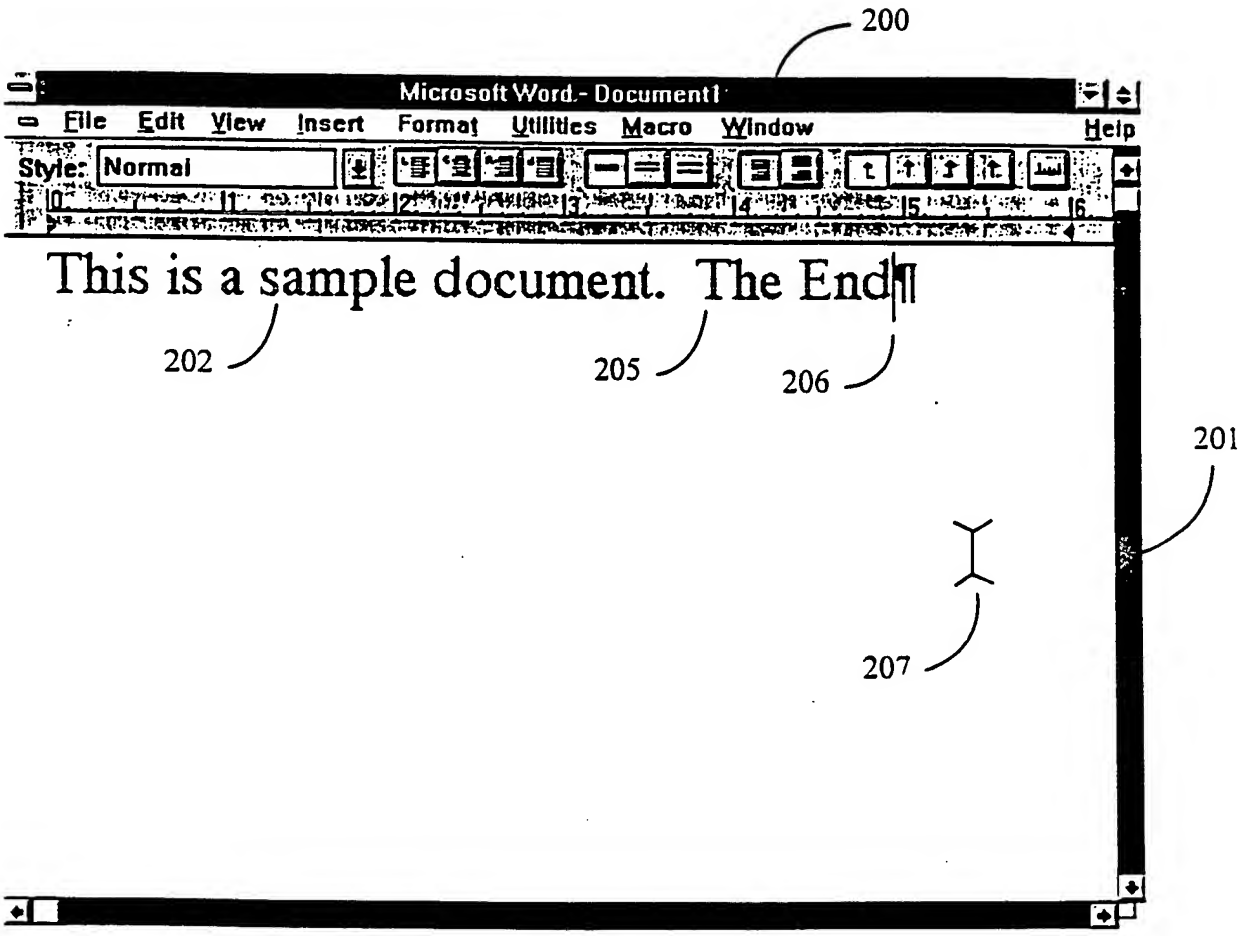
Microsoft Word - Document1
File Edit View Insert Format Utilities Macro Window Help
Style: Normal
This is a sample document. ¶
¶
202
203
201
The End
204

*Figure 2B*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File Edit View Insert Format Utilities Macro Window Help
Style: Normal
This is a sample document. The End¶
202
205
206
201
207

*Figure 2C*

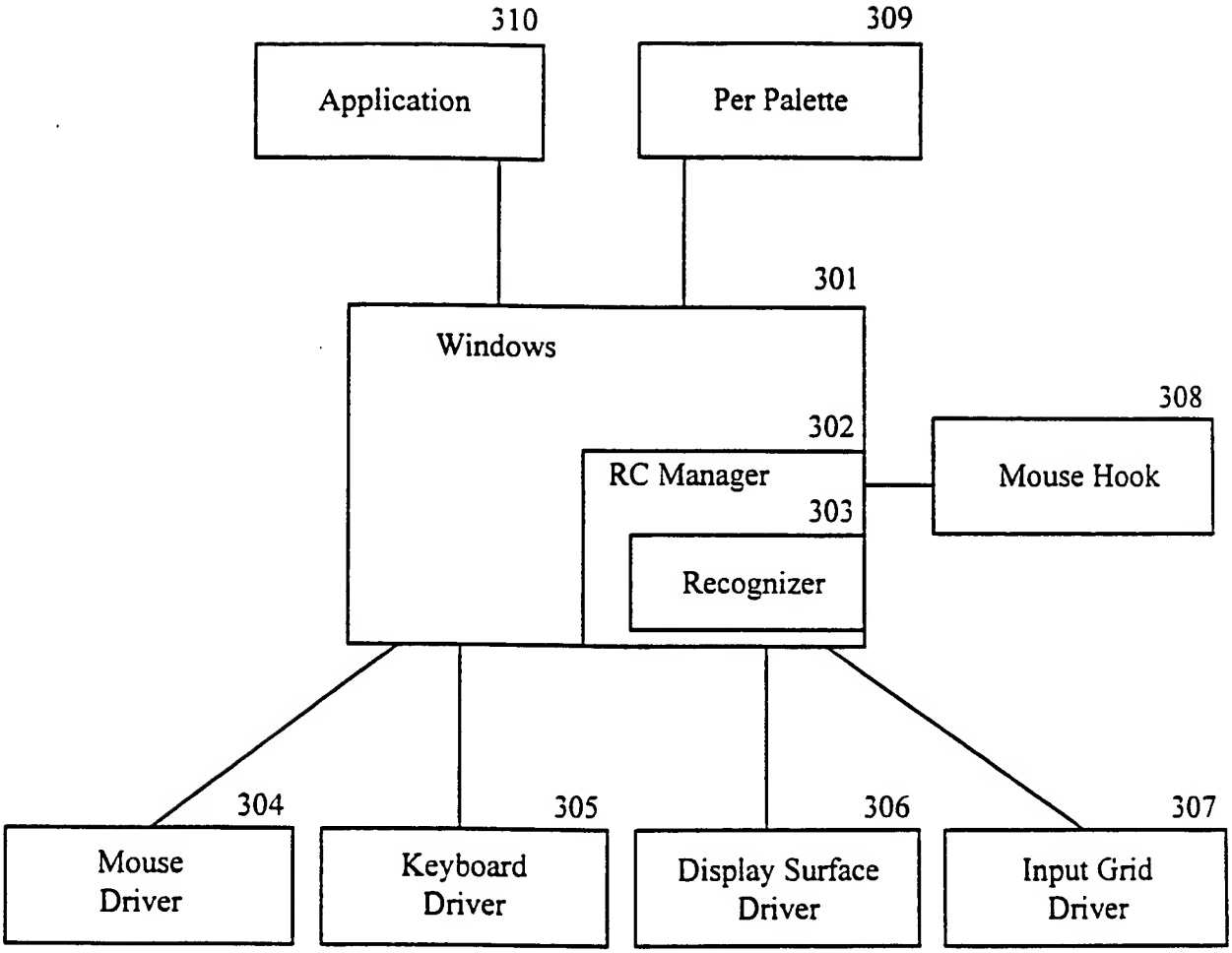
310
Application
309
Per Palette
301
Windows
308
302
RC Manager
Mouse Hook
303
Recognizer
304
Mouse Driver
305
Keyboard Driver
306
Display Surface Driver
307
Input Grid Driver

*Figure 3*

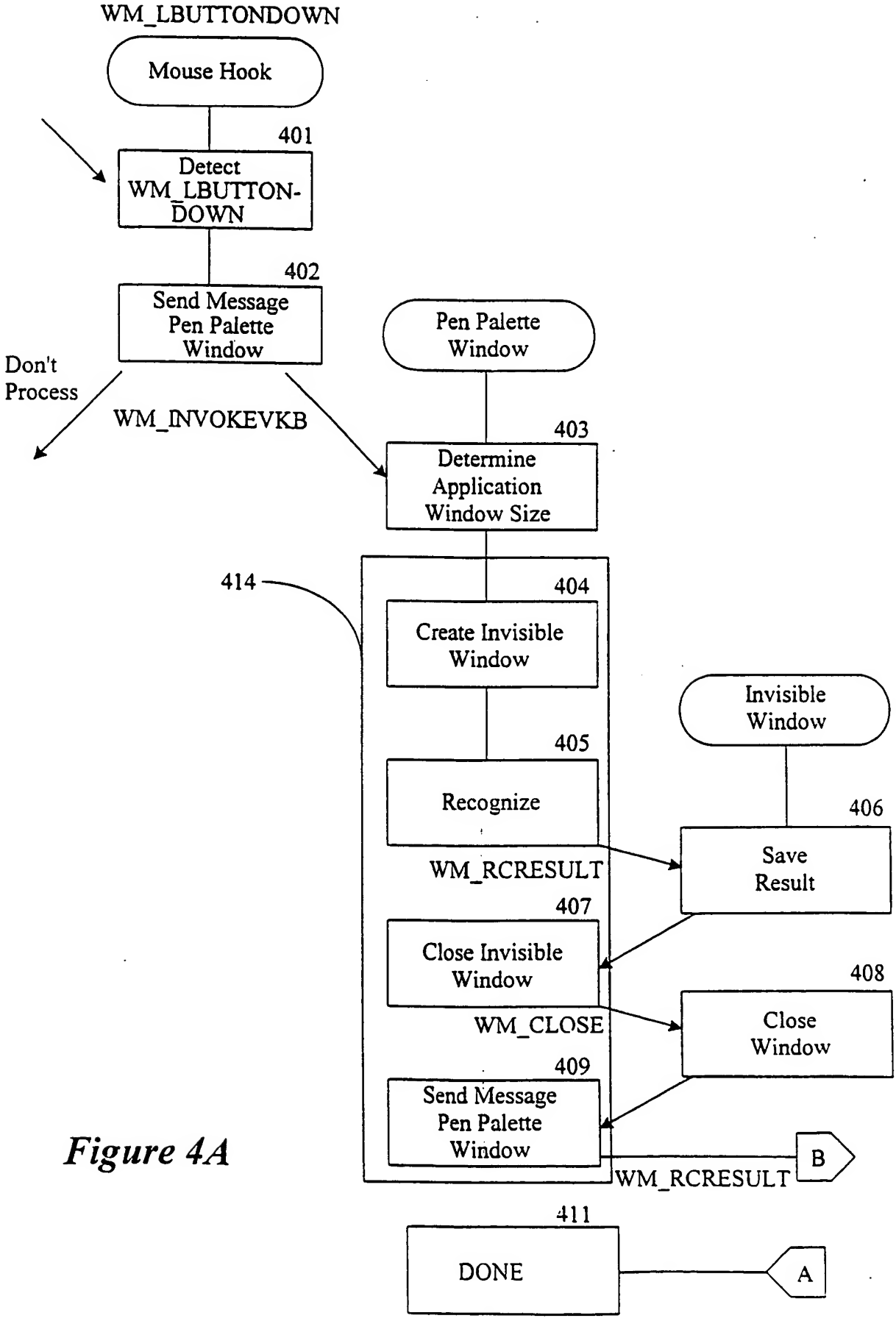
WM_LBUTTONDOWN
Mouse Hook
401
Detect WM_LBUTTON-DOWN
402
Send Message Pen Palette Window
Don't Process
WM_INVOKEVKB
Pen Palette Window
403
Determine Application Window Size
414
404
Create Invisible Window
Invisible Window
405
Recognize
406
Save Result
WM_RCRESULT
407
Close Invisible Window
408
Close Window
WM_CLOSE
409
Send Message Pen Palette Window
B
WM_RCRESULT
411
DONE
A

*Figure 4A*

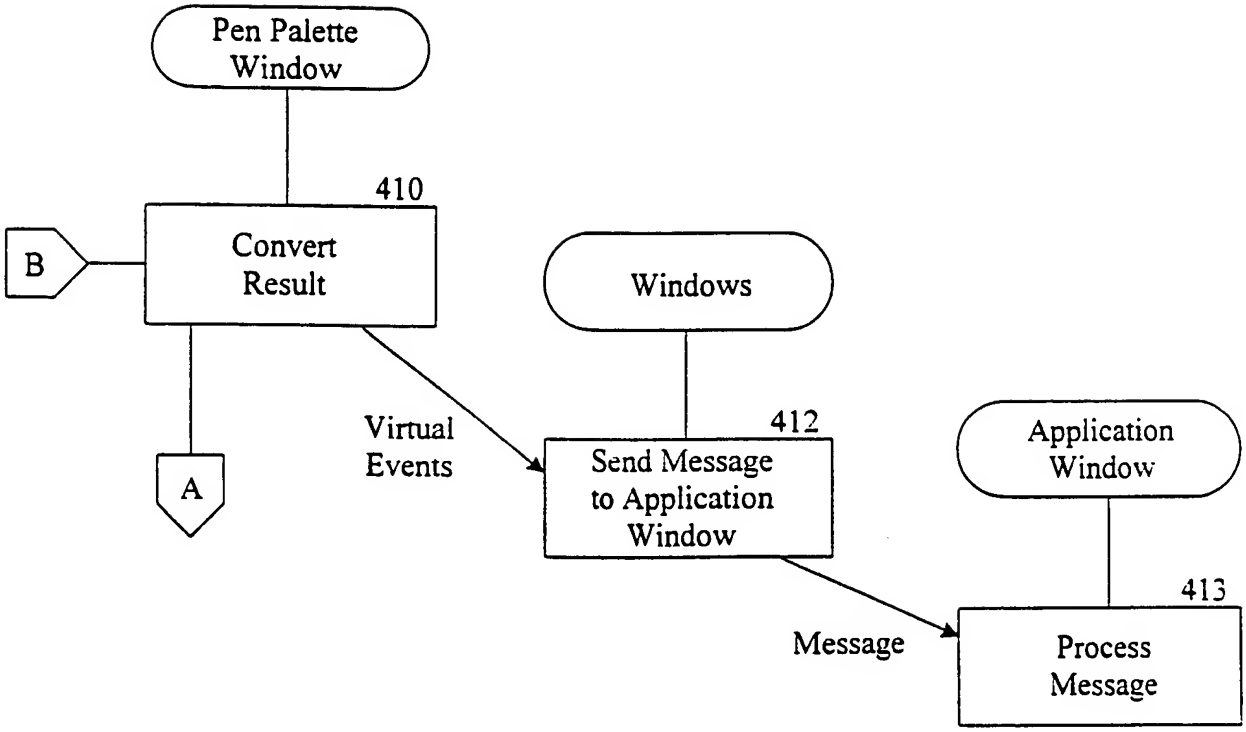
Pen Palette Window
410
Convert Result
B
A
Virtual Events
Windows
412
Send Message to Application Window
Application Window
413
Message
Process Message

*Figure 4B*

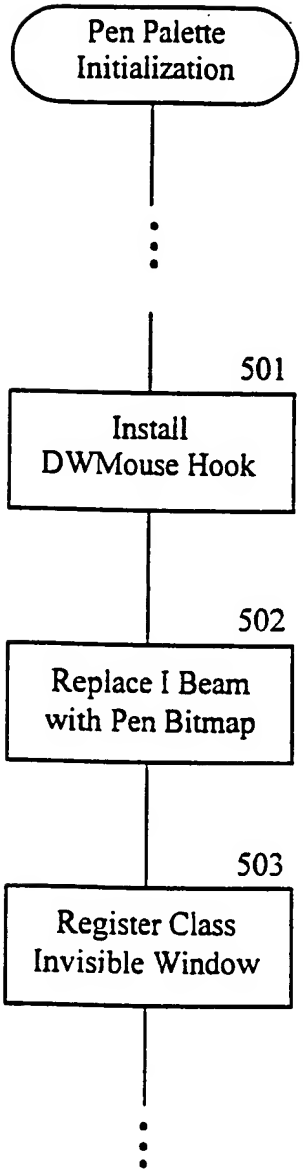
Pen Palette Initialization
501
Install DWMouse Hook
502
Replace I Beam with Pen Bitmap
503
Register Class Invisible Window

*Figure 5*

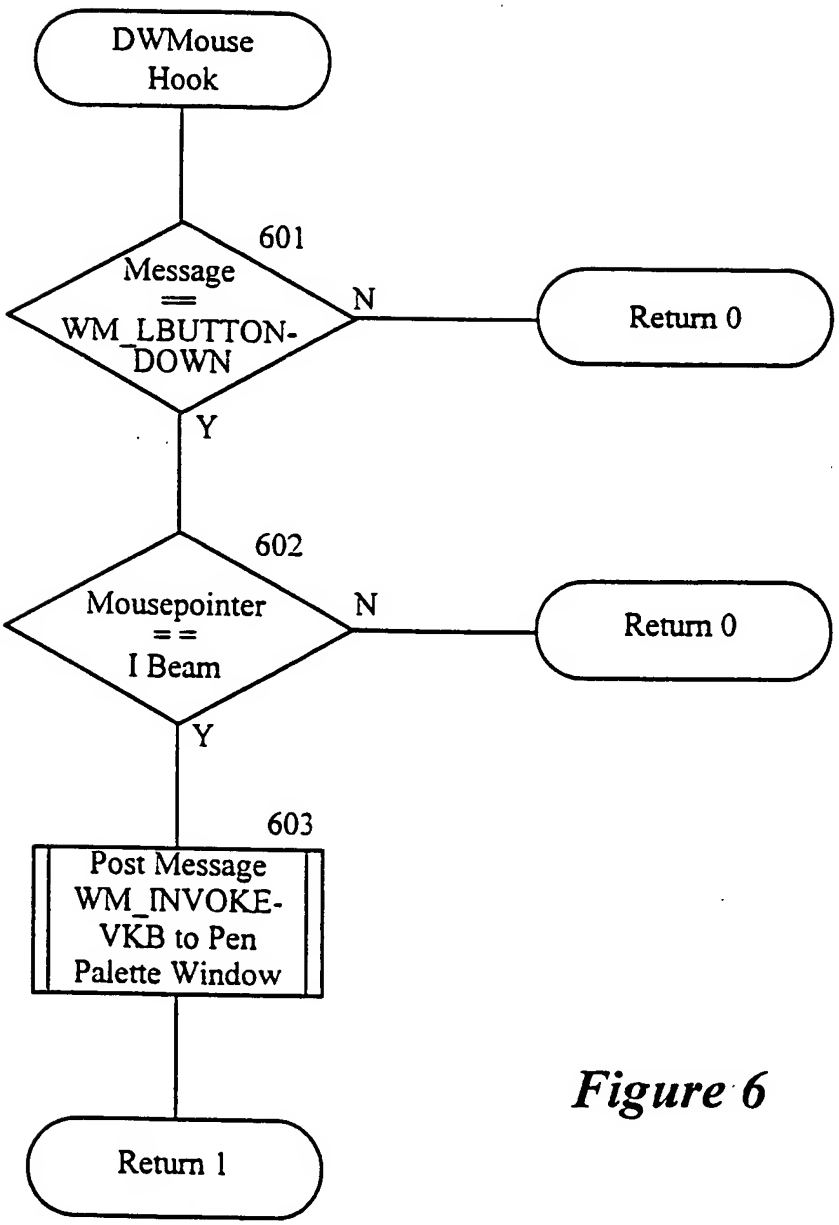
DWMouse Hook
601
Message == WM_LBUTTON-DOWN
N
Return 0
Y
602
Mousepointer == I Beam
N
Return 0
Y
603
Post Message WM_INVOKE-VKB to Pen Palette Window
Return 1

*Figure 6*

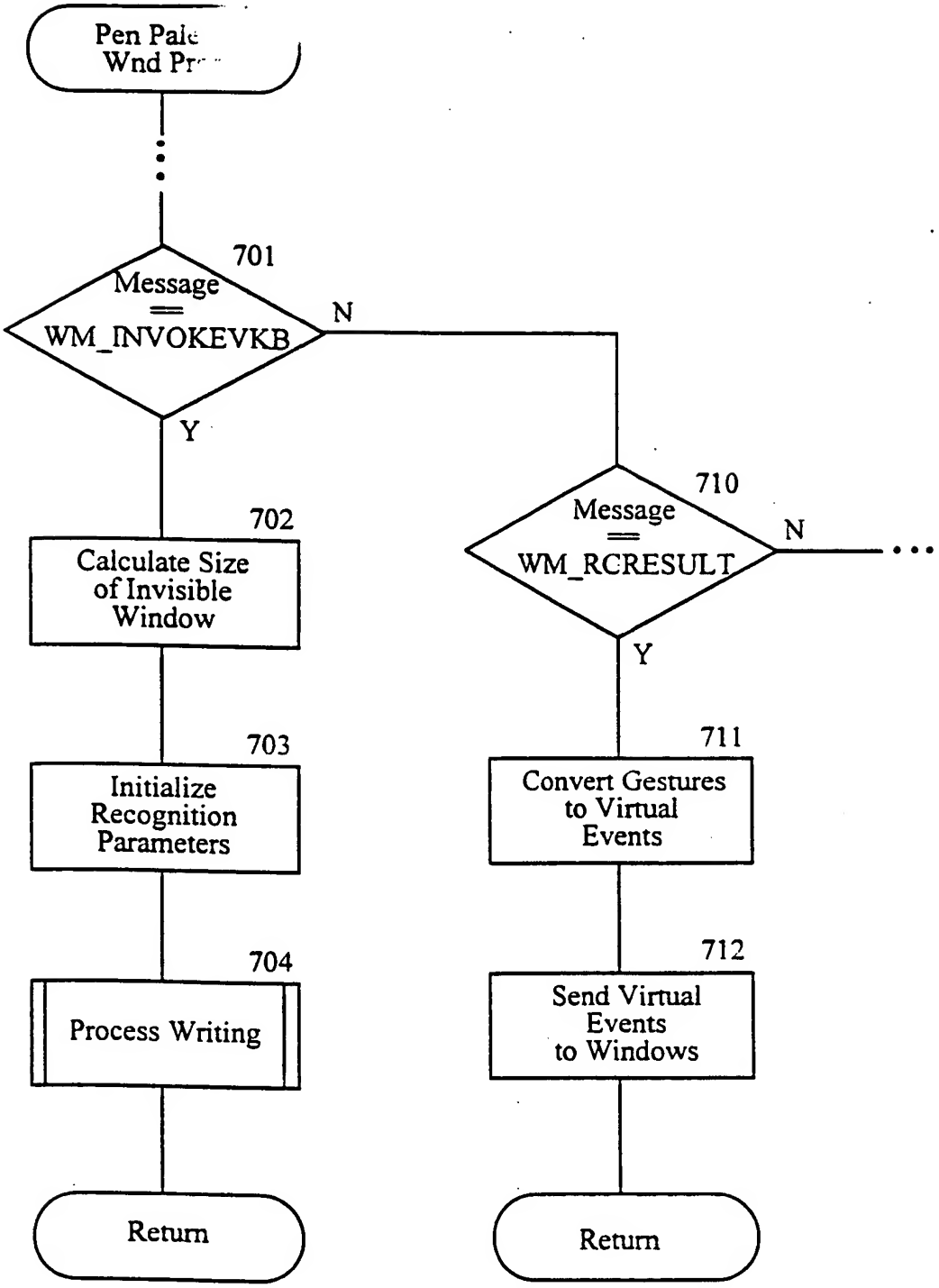
Pen Pale
Wnd Pr
701
Message
=
WM_INVOKEVKB
N
Y
702
Calculate Size
of Invisible
Window
703
Initialize
Recognition
Parameters
704
Process Writing
Return
710
Message
=
WM_RCRESULT
N
Y
711
Convert Gestures
to Virtual
Events
712
Send Virtual
Events
to Windows
Return

*Figure 7*

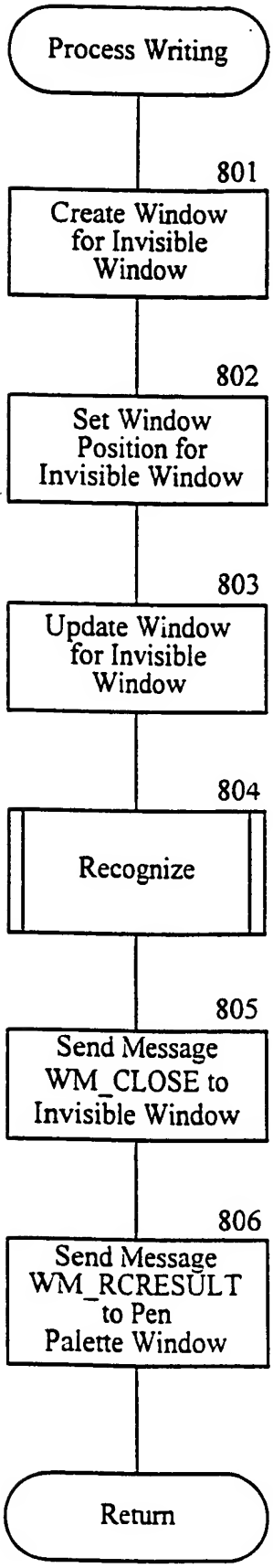
Process Writing
801
Create Window for Invisible Window
802
Set Window Position for Invisible Window
803
Update Window for Invisible Window
804
Recognize
805
Send Message WM_CLOSE to Invisible Window
806
Send Message WM_RCRESULT to Pen Palette Window
Return

*Figure 8*

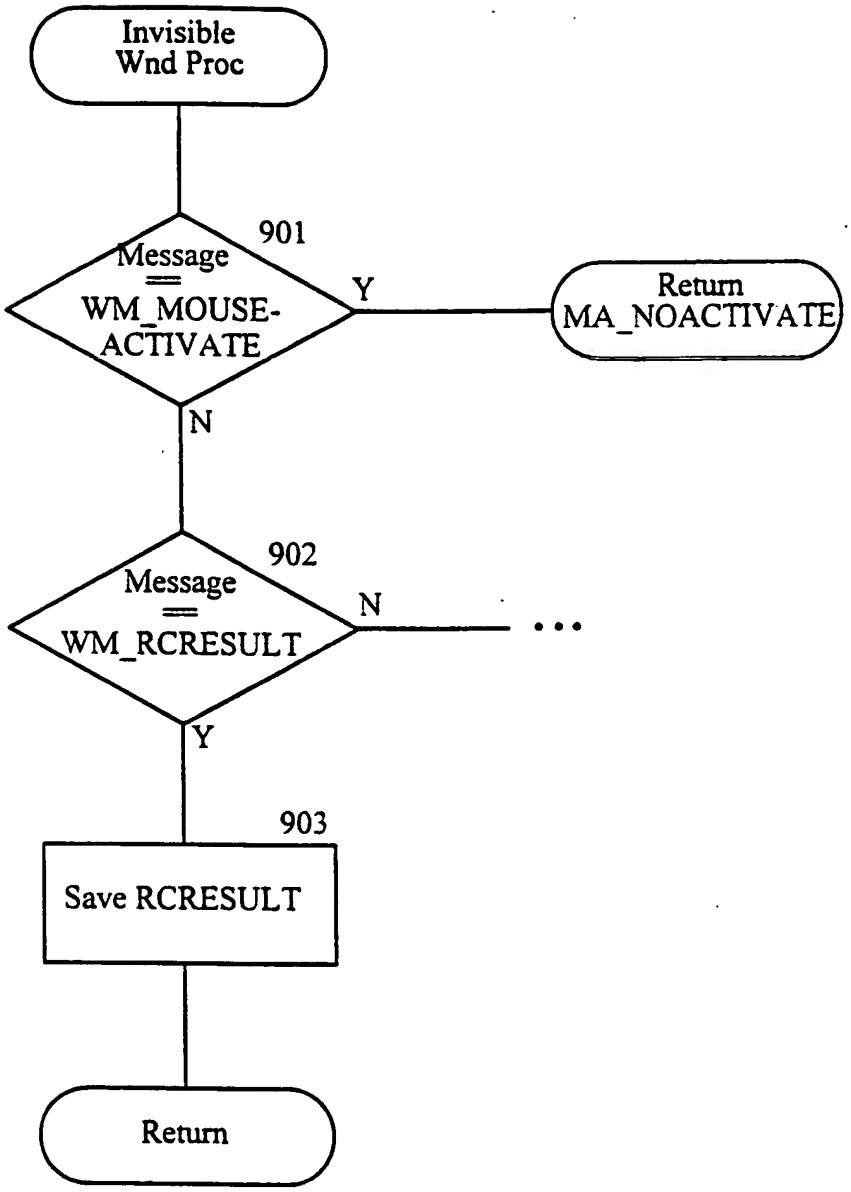
Invisible
Wnd Proc
901
Message
==
WM_MOUSE-
ACTIVATE
Y
Return
MA_NOACTIVATE
N
902
Message
==
WM_RCRESULT
N
...
Y
903
Save RCRESULT
Return

*Figure 9*